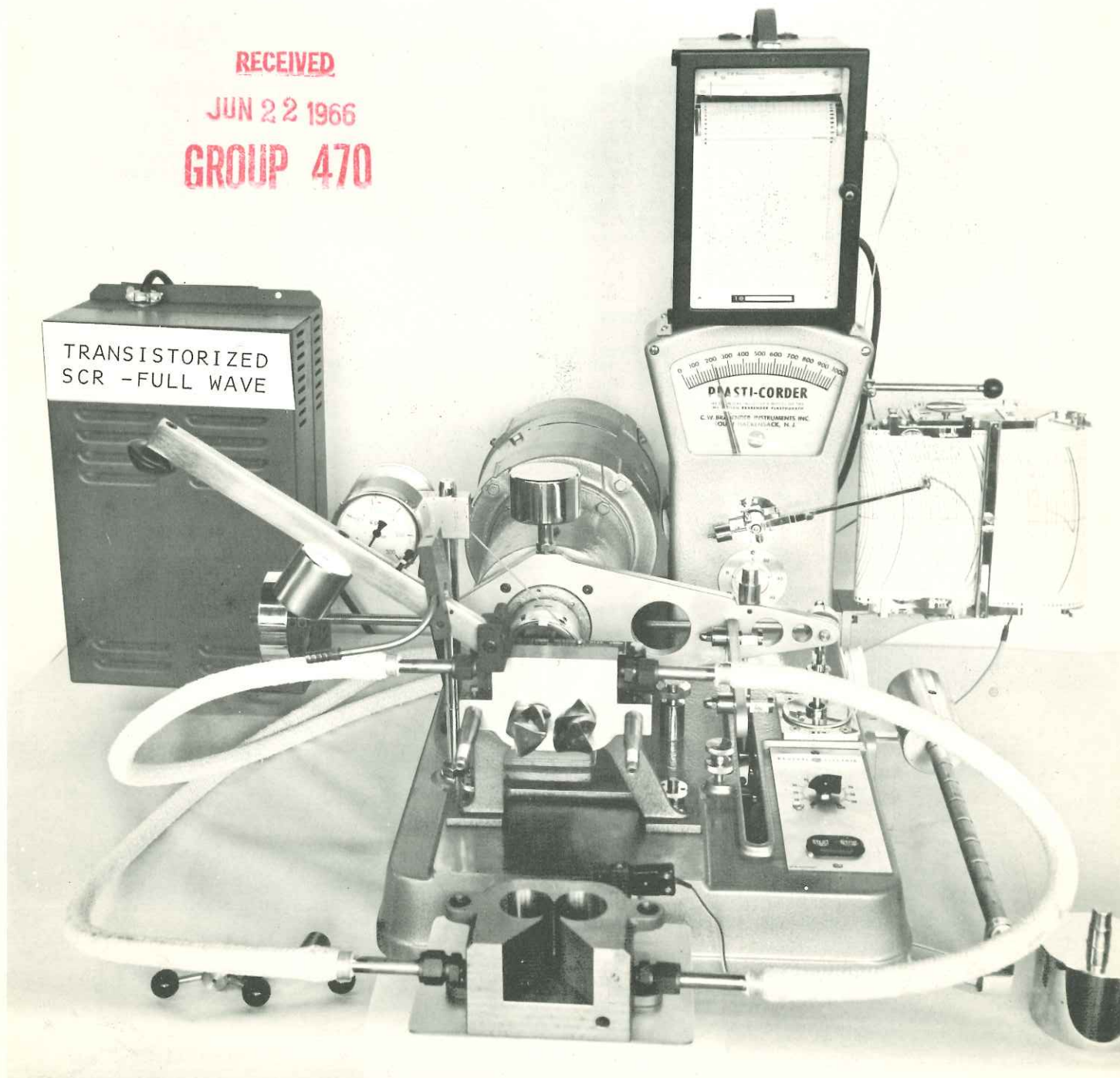


CWB

**C. W. BRABENDER
VERSATILE
PLASTI-CORDER®**

**SCR CONTROLLED
MODEL PL-V150**

RECEIVED
JUN 22 1966
GROUP 470



CWB

C.W. BRABENDER INSTRUMENTS INC.
80 EAST WESLEY STREET • SOUTH HACKENSACK, NEW JERSEY 07606 • Telephone: 343-8425 Area Code 201

OUR CUSTOMERS IN THE PLASTIC AND RUBBER INDUSTRIES ARE CONTINUOUSLY DEMANDING GREATER PLASTI-CORDER OUTPUT TORQUES TO MEET THE SPECIAL REQUIREMENTS OF NEW HIGH-MOLECULAR WEIGHT/HIGH VISCOSITY POLYMERS AND THEIR COMPOUNDS. THE REMARKABLE DEVELOPMENTS IN ACRYLIC POLYVINYL CHLORIDE BLENDS, POLYCARBONATES AND FIBER-GLASS REINFORCED THERMOPLASTICS, TO NAME A FEW, SUGGEST THE DEMANDS WE MUST FULFILL TO MEET THE CHALLENGES OF FUNDAMENTAL RESEARCH AND THE PRODUCT CONTROL OF THESE UNIQUE COMPOUNDS.

IT IS A PLAIN FACT THAT WE DO NOT BELIEVE IN SELLING EQUIPMENT WITHOUT EXTENSIVE ENGINEERING QUALITY CONTROL AND FIELD TESTING BECAUSE WE AIM TO INSURE THAT THE REQUIREMENTS OF INDUSTRY ARE NOT MET HALF WAY. FOR ABOUT A YEAR NOW, A NUMBER OF BASIC DESIGN IMPROVEMENTS IN THE PLASTI-CORDER HAVE BEEN SUBJECTED TO RIGID FIELD TESTS WHICH WOULD GUARANTEE THE FULFILLMENT OF INDUSTRY NEEDS TO THE BEST OF OUR KNOWLEDGE.

NOW, ONE YEAR LATER, WE ARE OFFERING A COMPANION MODEL TO THE PRODUCT LINE OF C. W. BRABENDER PLASTI-CORDERs. THIS NEW PROVEN INSTRUMENT IS DESIGNATED MODEL PL-V150.

SPEED CONTROL

THE PL-150 IS EQUIPPED WITH A 1.50 hp DYNAMOMETER BASED ON A HEAVY-DUTY SYNCHRONOUS MOTOR DRIVE. MOTOR SPEED IS REGULATED BY SILICON CONTROL RECTIFIER (SCR) FOR SENSITIVE FULL WAVE CONTROL.

LET US TELL YOU A BIT MORE ABOUT DC CONTROL SYSTEMS. A THYRATRON RECTIFIER TUBE WAS FOR MANY YEARS ONE OF THE COMMON MEANS FOR DC CONTROL. HOWEVER, THERE IS A LIMIT TO THE LIFE OF A THYRATRON TUBE BECAUSE OF AN INABILITY TO HANDLE OVERLOADS, CAUSING THE TUBE TO BE SUBJECTED TO HIDDEN INJURY. IN CONTRAST, TRANSISTORIZED CONTROLS ARE STRONGER, SELF-ADJUSTING AND ACCURATE, PARTICULARLY WHEN DESIGNED TO CONTROL ON THE FULL WAVE RATHER THAN THE HALF WAVE PRINCIPLE. IN FACT, PUBLISHED REPORTS ON DC CONTROL SYSTEMS USUALLY DECLARE THAT THYRATRON TUBE CONTROL IS RARELY BETTER THAN $\pm 2.5\%$ OF MAXIMUM SPEED, WHILE SILICON CONTROL RECTIFIER IS GOOD FOR $\pm 1.5\%$ OF FULL SPEED. EXTENSIVE OPERATING EXPERIENCE WITH OUR MODEL PL-V150AA INDICATES THAT SPEED CONTROL (SPEED DROP) FROM NO LOAD TO FULL LOAD IS LESS THAN 1.0%. THIS IS THE FINEST IN MOTOR SPEED CONTROL (unless we utilize the tachometer feed-back principle which is \$500.00 more).

MODESTLY PRICED

IN SUMMARY, THE MODEL PL-V150 IS SO PRECISELY POWERFUL, IT HARDLY KNOWS ITS OWN STRENGTH AND HAS A SPEED CONSISTENCY BETWEEN NO LOAD AND FULL LOAD THAT WILL MEET YOUR MOST EXACTING REQUIREMENTS. CUSTOMERS ALREADY USING THIS NEW PLASTI-CORDER ARE REPORTING BACK TO US WITH ENTHUSIASTIC KUDOS.

YOUR SPECIAL POLYMER PROBLEMS ARE GLADLY DEMONSTRATION-TESTED HERE AT NO CHARGE IN OUR LABORATORIES AT SOUTH HACKENSACK, NEW JERSEY. WE ARE SURE TEST RESULTS WILL JUSTIFY THE PURCHASE PRICE.

THE PRICE OF THE UNIT IS A MODEST . . .

\$2895.00

OTHER FEATURES AND NEW DEVELOPMENTS

SENSITIVITY SETTING

THE NEW SWITCHABLE TORQUE INDICATOR COVERS FIVE RANGES AS COMPARED WITH THE FORMER TWO. THESE, PLUS THREE SENSITIVITY POSITIONS ON THE LEVER ARM SYSTEM PROVIDE A WIDE VARIETY OF SENSITIVITY SETTINGS.

ZERO SUPPRESSION

THE SLIDING WEIGHT ZERO SUPPRESSION ATTACHMENT NOW HAS BOTH FULL SCALE ZERO SUPPRESSION AND HALF-SCALE ZERO SUPPRESSION POSITIONS.

SAMPLE LOADING

MANY OF YOU ARE FAMILIAR WITH SOME OF OUR LATEST TECHNIQUES IN RAPID, UNIFORM AND POSITIVE LOADING OF SAMPLES IN ORDER TO INCREASE REPRODUCIBILITY OF TESTS WHERE THE EARLY PART OF THE PLASTI-CORDER TRACE IS ESPECIALLY SIGNIFICANT. THE NEW QUICK LOADING RAM CHUTE WITH PISTON AND 5 kg MASS IS EASILY ATTACHED AND DISMOUNTED FROM THE MEASURING HEAD. THIS LOADING CHUTE IS A WORTHWHILE INVESTMENT AND A REAL PRACTICAL TOOL FOR THE INSTRUMENT OPERATOR.

PRICE . . .

\$ 97.00

THE PLASTI-CORDER IS THEREFORE NOW PREPARED TO BE USED WITH ALL THE VERSATILITY OF A FULL MANUAL ORGAN. NOT ONLY ARE ALL OF THE STANDARD SENSITIVITIES AND RANGES POSSIBLE, BUT AN INFINITE NUMBER OF NEW ONES MAY BE ACCOMMODATED AS SPECIAL PROBLEMS ARISE.

WE INVITE YOUR QUESTIONS AND COMMENTS ON THIS NEW UNIT. OUR TELEPHONE NUMBER IS:

AREA CODE 201

TELEPHONE 343-8425